

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
Facility Inspection Form for Compliance
with Underground Injection Control Requirements

Facility Name: Cabot Corp

IEPA File Heading: Tuscola / Cabot

Facility Address: P.O. Box 188

IEPA I.D. Number: 0412080001

Tuscola, IL 61953

County: Douglas

Facility Contact: Randy Bergeson

U.S. EPA I.D. No.: ILD 042075333

Title: Project Engineer

Inspector(s) Name: Rick Hersemann

Well Name: Cabot #1

DLPC / FOS

Date of Inspection: March 28, 1985

1. Well Classification Haz. NH

Class I	<u>X</u>	<u>X</u>	<u> </u>
Class II	<u> </u>	<u> </u>	<u> </u>
Class III	<u> </u>	<u> </u>	<u> </u>
Class IV	<u> </u>	<u> </u>	<u> </u>
Class V	<u> </u>	<u> </u>	<u> </u>

Comments: _____

2. Authorization

IEPA Permit: _____
Authorization By Rule: X
Emergency Permit: _____
Other: _____

Permit Number: _____

Permit Number: _____

3. Operational Status

Operating: _____
Standby: X
Inoperable: _____

Comments: _____

EPA Region 5 Records Ctr.



298915

	<u>Yes</u>	<u>No</u>	<u>Value</u>
4. <u>Recording Devices</u>			
a. Are continuous recording devices present/operating for: (730.113(b)(2))			
1. Injection Pressure**	<u>X</u>	<u> </u>	<u>0 psi</u>
2. Injection Flow Rate**	<u>X</u>	<u> </u>	<u>0 gal/min</u>
3. Volume**	<u>X</u>	<u> </u>	<u>902973 gal</u>
4. Annulus Pressure**	<u>X</u>	<u> </u>	<u>109 psi</u>
5. Temperature	<u> </u>	<u>X</u>	<u> </u>
6. pH	<u> </u>	<u>X</u>	<u> </u>
7. Other (specify) _____	<u> </u>	<u> </u>	<u> </u>
8. Other (specify) _____	<u> </u>	<u> </u>	<u> </u>
b. Are gauges present/operating for:			
1. Injection Pressure	<u>X</u>	<u> </u>	<u>0 psi</u>
2. Injection Flow Rate	<u> </u>	<u>X</u>	<u> </u>
3. Volume	<u> </u>	<u>X</u>	<u> </u>
4. Annulus Pressure	<u>X</u>	<u> </u>	<u>109 psi</u>
5. Temperature	<u> </u>	<u>X</u>	<u> </u>
6. pH	<u> </u>	<u> </u>	<u> </u>
7. Other (Specify) _____	<u> </u>	<u> </u>	<u> </u>
8. Other (Specify) _____	<u> </u>	<u> </u>	<u> </u>
c. Are all of the above operating within permitted ranges?	<u>X</u>	<u> </u>	<u> </u>

Comments: _____

	<u>Yes</u>	<u>No</u>	<u>Comment</u>
5. <u>Well Completion Method</u>			
a. If a packer is utilized (730.113(a)(3)):	<u> </u>	<u>X</u>	<u> </u>
1. Has the annulus pressure been approved by the Agency?+	<u> </u>	<u>NA</u>	<u> </u>
2. Has the annulus fluid been approved by the Agency?+	<u> </u>	<u>NA</u>	<u> </u>

*Required for Class I wells

+Required for Authorization by Rule

	<u>Yes</u>	<u>No</u>	<u>Value</u>
b. If a packer is not utilized, has an alternative to a packer been approved by IEPA? (730.112(c)(1))+			<u>Pending UIC Permit Approval</u>
Comments: _____			

<u>6. Monitoring and Records</u>	<u>Yes</u>	<u>No</u>	<u>Comment</u>
a. Are the following retained for at least 3 years? (702.150(b))			
1. All calibration and maintenance records for continuous recording devices+	<u>X</u>	_____	_____
2. Original strip chart recordings+	<u>X</u>	_____	_____
3. Copies of all required reports+	<u>X</u>	_____	_____
4. Records of all data used to complete the application for permit+	<u>X</u>	_____	_____
5. All monitoring information+	<u>X</u>	_____	_____
b. Do the records of monitoring information include: (702.150(c))			
1. The date, exact place and time of sampling or measurements+	<u>X</u>	_____	_____
2. The individual(s) who performed the sampling or measurements+	<u>X</u>	_____	_____
3. The date analyses were performed+	<u>X</u>	_____	_____
4. The individual(s) who performed the analyses+	<u>X</u>	_____	_____
5. The analytical techniques or methods used+	<u>X</u>	_____	_____
6. The results of analyses+	<u>X</u>	_____	_____
c. Are records concerning the nature and composition of all injection fluids retained? (704.181(b))+	<u>X</u>	_____	_____
For wells which inject hazardous waste;			
d. Is an operating record maintained in accordance with Section 724.173(a), (b)(1) and (b)(2)?+	<u>X</u>	_____	_____

	<u>Yes</u>	<u>No</u>	<u>Comment</u>
e. Are the applicable personnel training requirements of Section 724.116 met?+	<u>X</u>	<u> </u>	<u> </u>

Comments:

7. Sample Preservation, Handling and Analyses

a. Are appropriate sample preservation and preparation procedures being followed?	<u>X</u>	<u> </u>	<u> </u>
b. Are samples refrigerated?	<u> </u>	<u>X</u>	<u> </u>
c. Are USEPA recommended sample holding period requirements adhered to?	<u>X</u>	<u> </u>	<u> </u>
d. Are suitable container types used?	<u>X</u>	<u> </u>	<u>Glass</u>
e. Are provisions made to store and ship samples under cold conditions?	<u> </u>	<u>X</u>	<u> </u>
f. Is a specific chain of custody form utilized?	<u> </u>	<u>X</u>	<u> </u>
g. Is sample analysis performed by a qualified laboratory?	<u>X</u>	<u> </u>	<u> </u>

Indicate Lab CABOT LAB

h. Are the analytical methods acceptable?	<u>X</u>	<u> </u>	<u> </u>
i. Are analyses of the injection fluids done with sufficient frequency to yield data representative of their characteristics?	<u>X</u>	<u> </u>	<u> </u>

Comments:

8. Plugging and Abandonment

Has a Plugging and Abandonment Plan been submitted to the Agency? (704.188)+	<u>X</u>	<u> </u>	<u> </u>
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9. Monitor Wells

a. Are monitor wells utilized? (730.113(b)(4))	<u> </u>	<u>X</u>	<u> </u>
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	<u>Yes</u>	<u>No</u>	<u>Comment</u>
b. Are data and other monitoring information retained per Sections 702.150(b) and (c)?	<u> </u>	<u>NA</u>	<u> </u>

Comments:

10. Operating Requirements

a. Is the injection pressure less than the fracture pressure of the injection zone? (730.113(a)(1))+	<u>X</u>	<u> </u>	<u> </u>
b. Is the injection pressure less than the fracture pressure of the confining zone? (730.113(a)(1))+	<u>X</u>	<u> </u>	<u> </u>
c. Does injection occur between the outermost casing and the well bore? (730.113(a)(2))+	<u> </u>	<u>X</u>	<u> </u>
d. Are any additional operating requirements specified by a permit complied with?+	<u> </u>	<u>NA</u>	<u> </u>

Comments: Pressures within previously determined
rates under State NPDES Permit

11. Reporting Requirements

a. Are reports submitted at least quarterly to the Agency on: (730.113(c))			
1. the physical, chemical and other relevant characteristics of the injection fluids+	<u>X</u>	<u> </u>	<u>Monthly Reports</u>
2. the monthly average, maximum and minimum values for injection pressure, flow rate and volume and annular pressure+	<u>X</u>	<u> </u>	<u>Avg. not Determined</u>
3. monitor well data+	<u> </u>	<u> </u>	<u> </u>
b. Were the results of any mechanical integrity testing, well work over or any other testing required by the Agency submitted with the next scheduled report? (730.113(c))+	<u>X</u>	<u> </u>	<u> </u>

	<u>Yes</u>	<u>No</u>	<u>Comment</u>
c. Was the Agency notified within 24 hours of: (704.181(d))			
1. Any monitoring or other information which indicates that any contamination may cause an endangerment to a USDW+		NA	
2. Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between USDW's.+		NA	
d. For wells which inject hazardous waste, was an annual report submitted in accordance with Section 724.175?+	X		

Comments: _____

12. Mechanical Integrity

a. Has mechanical integrity been demonstrated? (730.108)	X		
b. If yes, which of the following methods were employed?			
1. Monitoring of the annulus pressure	X		
2. Pressure test	X		
3. Temperature log	X		
4. Noise log	X		
5. Radioactive tracer log		X	
6. Other Caliper log	X		
7. Other Magnetic Casing Log	X		

Comments: _____

	<u>Yes</u>	<u>No</u>	<u>Comment</u>
13. <u>Special Conditions</u>			
a. Are all permit special conditions being met?		NA	
If no; Explain:			

Remarks: Well on standby